

Title (en)

Process for the continuous biological production of lipids, hydrocarbons or mixtures thereof

Title (de)

Verfahren zur kontinuierlichen biologischen Herstellung von Lipiden, Kohlenwasserstoffen oder Zusammensetzungen davon

Title (fr)

Procédé pour production continue biologique des lipides, glucides ou leurs mélanges

Publication

EP 2196539 B1 20220209 (EN)

Application

EP 08171701 A 20081215

Priority

EP 08171701 A 20081215

Abstract (en)

[origin: EP2196539A1] The present invention is directed to a process for the continuous biological production of lipids, hydrocarbons, hydrocarbon like material or mixtures thereof by conversion of a suitable substrate using micro-organisms, in which process the said substrate is continuously, anaerobically fermented to produce lipids, hydrocarbons, hydrocarbon like material or mixtures thereof and fermentation gas, in the presence of, optionally supported, micro-organisms in an aqueous medium in a column type reactor, in which reactor at least part of the aqueous medium flows in upward direction, and recovering the lipids, hydrocarbon or hydrocarbon like material by separating the fermentation gas, the micro-organisms, the lipids, hydrocarbon or hydrocarbon like material from each other under conditions that coalescence of the hydrocarbon material or hydrocarbon like material is promoted.

IPC 8 full level

C12P 5/02 (2006.01); **C12P 7/64** (2022.01)

CPC (source: EP)

C12P 5/02 (2013.01); **C12P 7/6463** (2013.01); **Y02E 50/30** (2013.01)

Citation (examination)

- ARJAN S. HEERES ET AL: "Fermentation broth components influence droplet coalescence and hinder advanced biofuel recovery during fermentation", BIOTECHNOLOGY JOURNAL, vol. 10, no. 8, 1 August 2015 (2015-08-01), DE, pages 1206 - 1215, XP055501183, ISSN: 1860-6768, DOI: 10.1002/biot.201400570
- HEERES ARJAN S ET AL: "Microbial advanced biofuels production: overcoming emulsification challenges for large-scale operation", TRENDS IN BIOTECHNOLOGY, vol. 32, no. 4, April 2014 (2014-04-01), pages 221 - 229, XP028837784, ISSN: 0167-7799, DOI: 10.1016/J.TIBTECH.2014.02.002

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EP3766982A1; WO2021010822A1; US2015225669A1; JP2017512062A; US9752165B2; WO2015130167A1; US10494653B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 2196539 A1 20100616; EP 2196539 B1 20220209; DK 2196539 T3 20220314; ES 2908334 T3 20220428; SI 2196539 T1 20220630

DOCDB simple family (application)

EP 08171701 A 20081215; DK 08171701 T 20081215; ES 08171701 T 20081215; SI 200832191 T 20081215